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		FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION :			
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DUCKET NO.	CONFIRMATION NO.	
10/050,536	01/18/2002	Yasahiro Nonebe	218190US2	7743	
22850	7590 05/03/2004		EXAMINER		
		ID, MAIER & NEUSTADT, P.C.	CHANKY, C	-Bal Marin	
OBLON, S		D, MAIER & NEUSTADT, P.C.	CHANET, CA	CKOL DIAME	

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GLOWEY, CARGOL DIAME

ALEXANDRIA, VA 22314

ACTURIT PAPERNUMBER

1785

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic	e Action Summary	Examine	r	Art Unit				
		Carol Ch	aney	1745				
- The MA	ILING DATE of this communic	ation appears on th	e cover sheet with the o	orrespondence ac	idress			
THE MAILING - Extensions of time after SIX (6) MON - If the period for rep - If NO period for rep - Failure to reply will - Any reply represent	D STATUTORY PERIOD FO DATE OF THIS COMMUNIC imay be available under the provisions of This from the malling date of this commu- ity specified above is less than thirty (30) by a specified above, the maximum slab, since the set of extended priod for reply who by the Office laber files three marchs aff adjustment. See 37 CFR 1704(b).	ATION. 37 CFR 1,138(a). In no er vication. days, a rapty within the size tory period will apply and vol. It by statute cause the au	rent, however, may a reply be fir tudory minimum of thirty (30) day all expire SIX (8) MONTHS from the about on become All ANDONE	nely filed s will be considered time the mailing date of this o O (15 U.S.C. 5 133)	ily. communication.			
Status								
1)⊠ Resnons	ive to communication(s) filed	on 17 Merch 2004						
2a) ☐ This ection		N⊠ This action is						
	s application is in condition for	r allowance excep	for formal matters, or	secution as to th	e merits is			
	accordance with the practice							
Disposition of Cla	•							
	1-19 is/are pending in the ap							
	above claim(s) <u>1-6 and 9-19</u>	is/are withdrawn i	rom consideration.					
	is/are allowed.							
	7 and 8 is/are rejected.							
	is/are objected to.							
8) Claim(s)	ere subject to restricti	on and/or election	equirement.					
Application Paper	rs							
9) The speci	ificetion is objected to by the	Examiner.						
10) The draw	ing(s) filed on 18 January 20	<u>02</u> is/are: a)⊠ aco	epted or b) objected	to by the Examir	ter.			
Applicant	may not request that any object	on to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacem	ent drawing sheet(s) including t	ne correction is requi	red if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d)			
11) The oath	or declaration is objected to t	y the Examiner. N	ote the attached Office	Action or form P	TO-152.			
Priority under 35	U.S.C. § 119							
12) Acknowle	dgment is made of a claim fo	r foreign priority ur	der 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)	Some * c) None of:							
1.⊠ Ce	rtified copies of the priority d	ocuments have be-	en received.					
2.□ Ce	rtified copies of the priority d	ocuments heve be-	en received in Appliceti	ion No				
3.□ Co	3. Copies of the certified copies of the priority documents have been received in this National Stage							
ap.	plication from the Internation:	al Bureau (PCT Ru	le 17.2(a)).		-			
	tached detailed Office action			ed.				
Attachment(s)								
Attachment(s) 1) Notice of Referer	sees Clied (DTO 902)		4) Interview Summary	(PTO-413)				
	erson's Patent Drawing Review (PT	D-948)	Paper No(s)/Mail D	ate				
	osure Statement(s) (PTO-1449 or P		5) Notice of Informal F 8) Other:	Patent Application (PT	O-152)			
S Pasent and Trademark Office PTOL-326 (Rev. 1-04)		Office Action Summ	ıry Pi	rt of Paper No./Mail E	Date 2004060			

Application No.

Application/Control Number: 10/050,536 Art Unit: 1745

Flection/Restrictions

Applicant's election with traverse of species 2; fuel cell systems which include a pressure reducing device and a relief valve (Claims 7, 8) in Paper No. 20040317 is acknowledged. The traversal is on the ground(s) that an undue burden would not be required if the Restriction Requirement was not issued and all the claims were examined together. This is not found persuasive because the application contains seven separate species of inventions which, irrespective of the required search areas would require seven times the examination effort. The increase in examination effort by a factor of seven would cause an undue burden on the part of the examiner.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

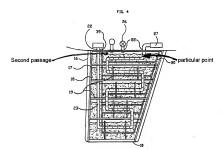
A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 7 is rejected under 35 U.S.C. 102(b) as being anticipated by Rendina, US Patent 5.445.099.

Rendina discloses an on-board fuel cell system to be installed on a ship. (See Fig. 1, ref. number 12, and column 4, lines 37-40.) As shown in Figure 4, the hydrogen storage system disclosed by Rendina includes a gas distribution line (23) which includes a first passage that connects the outlet of the gas storage device (22) with a fuel cell (12). A heater (39) adjusts/reduces the pressure of hydrogen gas discharged from the hydrogen gas storage device since the amount of gaseous hydrogen in the keel is determined by the temperature of the ballast. A second passage is formed in the space at the top of the ballast container.

....



Pressure relief valve (26) as shown above, is located in the second passage. Thus, the claim is anticipated.

Claim Relections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title. If the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been covious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negative by the manner in which the invention was made.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rendina,

As discussed above, Rendina discloses applicants' invention essentially as claimed, with the exception that Rendina does not specifically mention orientations of the pressure relief valve shown with respect to road surfaces. However, one of ordinary skill in the art will recognize the ships described by Rendina will at least occasionally dock. In such a case, the pressure relief valve discharge will be directed towards the dock. A boat dock is considered to be a road, since it is an open way for vehicles, persons, and animals. Thus, one of ordinary skill in the art will recognize the hydrogen

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

discharge described by Rendina will be directed towards a road surface.

James, US Patent 6.329.091B1

Choroszylow et al., US Patent 6,266,952 B1

Tsutsumi et al., US Patent 5,229.222 A

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol Chaney whose telephone number is (571) 272-1284. The examiner can normally be reached on Mon - Fri. 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PaIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 865-217-9197 (foll-free).

> Carol Chaney Primary Examiner Art Unit 1745